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28 June 1955

MEMORANDUM FOR:: AC/TSS/APD

THRU : AC/TSS/TA

SUBJECT : Request for Development of a Telescoping 48" Focal Length Lens.

25X1

2. Since the use of a long lens will be frequently required in areas of difficult accessibility, a telescoping model is felt to be indicated. The lens tube might be constructed along the lines of a tripod leg, where small telescoping sections are utilized. An internal thread might be used to properly fix each section in rigid position when in operation.

3. For maximum sharpness, use of a process lens such as the Apo-Tessar is suggested. Although the speed of a process lens is less than a normal lens, an aperature of approximately f8 should be sufficient for most work with modern high speed films. Focusing could be accomplished by utilizing a helical mount on the lens.

4. Specifications:

a. Lens to be a process lens of f8 or greater, 48" focal length, in helical mount (no shutter).

b. Overall length of completely (?) HW complete telescoped lens to be 15".

c. Diameter of tube to be as small as possible. This will be determined by the diameter of the lens.

d. Minimum/

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d. Minimum weight.

e. Tube material to be light weight metal of great strength such as dural or magnesium. Color: black.

f. Two 5/8" (European type) tripod sockets to be installed, one at either end of lens tube. Exact placement to be determined by balance of assembled unit.

g. Camera fitting to be bayonet type, for Exacta camera.

5. This project has been discussed with [redacted] of APD. 25X1

6. It is requested that we be furnished with three long lenses of the above description.

[redacted] 25X1

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